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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/919,254	07/31/2001	Daniel K. Recinella	ANGIO P-15 - (500622.2000)	3169

7590 09/26/2003

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[REDACTED] EXAMINER

SIRMONS, KEVIN C

ART UNIT	PAPER NUMBER
3763	[REDACTED]

DATE MAILED: 09/26/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	09/919,254	RECINELLA ET AL.
	Examiner Kevin C. Sirmons	Art Unit 3763

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 30 June 2003.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 24 and 26-48 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) 35-43 is/are allowed.
- 6) Claim(s) 24,26,44-46 and 48 is/are rejected.
- 7) Claim(s) 27-34 and 47 is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) The proposed drawing correction filed on _____ is: a) approved b) disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) The translation of the foreign language provisional application has been received.
- 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) Paper No(s). _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449) Paper No(s) <u>Q</u> | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Drawings

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they do not include the following reference sign(s) mentioned in the description: a gas transfer system does not have a reference numeral. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

The drawings are objected to as failing to comply with 37 CFR 1.84(p)(5) because they include the following reference sign(s) not mentioned in the description: The gas transfer system mentioned in the specification does not have a reference numeral. A proposed drawing correction, corrected drawings, or amendment to the specification to add the reference sign(s) in the description, are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 24, 26, 44-46 and 48 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Teirstein U.S. Pat. No. 5,533,978.

Teirstein discloses a method for supplying a contrast medium to a patient's vascular system comprising: providing a flexible bag filled with contrast medium at essentially atmospheric pressure (14); operatively connecting said flexible bag to the patient's vascular system (fig. 2) via a gas transfer system (10), said gas transfer system including: a dual check valve (16) adapted to be connected to a lower pressure source of contrast medium (fully capable of being adapted (see 20 connect to 14), said dual check valve having a first inlet port (top portion/input end of 42), a first outlet port (distal end/out end of 48) and a first inlet-outlet port (dual check valve portion of 16 connected to syringe (50)), said dual check valve containing a first one-way valve (42) at said first inlet port automatically responsive to the relatively low pressure at said first inlet-outlet port to permit downstream fluid flow and to prevent upstream fluid flow (col. 5, lines 1-19), said dual check valve containing a second one-way valve (48) at said first outlet port (distal portion of 48) automatically responsive to the relatively high pressure at said first inlet-outlet port to permit downstream fluid flow and to prevent upstream fluid flow (48), said first inlet-outlet port in communication with said first and second one-way valves and adapted to be connected to a pump (fig. 2), and a connecting tubular member (22) having an upstream and downstream end, said upstream end in communication with said first outlet port of said dual check valve; purging said gas transfer system of air (col. 5, lines 5-9) delivering said contrast medium from said flexible bag through said gas transfer system to the patient's vascular system (fig. 2), the delivering step including: suction at said first inlet-outlet port by the pump to cause said first one-way valve to automatically open (col. 7, lines 1-11), allowing flow of contrast medium from said bag into the pump (col. 7, lines 1-11), and to cause said second one-way valve to automatically close (col. 7, lines 1-11),

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preventing fluid flow upstream from said connecting tubular member into the pump, and exerting positive pressure at said first inlet-outlet port from the pump to cause said second one-way valve to automatically open, allowing fluid flow from said pump into said tubular member, and to cause said first one-way to automatically close, preventing upstream fluid flow to the source (col. 7, lines 7-11). However, it may not be clear to one of ordinary skill in the art that the valves disclosed by Teirstein could be automatically responsive to low and high pressures. It is nevertheless, the examiner's position that the valves of Teirstein are automatically responsive to low and high pressures (col. 4, lines 65-67 and col. 7, lines 11-13). In the aforementioned passages, Teirstein clearly teaches that his valves can be check valves, which are identical to the valves disclosed by applicant and that the valves can be ball valves. Both are well known in the art as being automatically responsive to various pressures. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the device of Teirstein to have automatically responsive valves as taught by Teirstein (col. 4, lines 65-67 and col. 7, lines 11-13) to control the flow of contrast medium (col. 4, lines 65-67); as to claim 26, (56); as to claim 44, (col. 6, lines 59-67 and col. 7, 1-17); as to claim 45, (see above rejection and a tubular member having an upstream end connected to the outlet port and a downstream end connectable to a catheter (col. 4, lines 53-54); as to claim 46, (col. 4, lines 53-54 and col. 7, lines 16-17); and as to claim 48, (see above rejections).

Allowable Subject Matter

Claims 27-34 and 47 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claims 35-43 are allowable over the prior art of record.

The following is a statement of reasons for the indication of allowable subject matter: The prior art of record disclose the device substantially as claimed at the time the invention was made except for a third one-way valve in communication with said downstream end of the tubular member to permit downstream fluid flow from the tubular member and to prevent upstream fluid flow in said tubular member.

Response to Arguments

Applicant's arguments with respect to claims 24 and 26-48 have been considered but are moot in view of the new ground(s) of rejection.

Basically, Teirstein discloses manual valves check valves and ball valves, which can all be used in his invention at the users discretion. It is well known in the art that check and ball valves work automatically as clearly disclosed in applicant's specification. That is clearly why applicant uses check valves. Further, Teirstein did not specifically indicate that the valves were the reason the procedure was time consuming. He specifically indicated that "Once connected as shown, the know apparatus must be primed by drawing dye, into the syringe and dispensing it into the guide catheter, including the purging of all air bubbles form the manifold and the tubing." Teirstein never indicated what aspect of the purging was time consuming.

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He could have been referring to the purging process itself. The manual valves are shown for illustrative purposes only as clearly indicated on (col. 4, lines 65-67).

Conclusion

Any inquiry concerning this communication or earlier communication from the examiner should be directed to Kevin C. Sirmons whose telephone number is (703) 306-5410. The examiner can normally be reached on Monday - Thursday from 6:30 am to 4:00 pm. The examiner can also be reached on alternate Fridays.


Kevin C. Sirmons
Patent Examiner
9/19/03